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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,848	03/30/2004	Makoto Jinno	251147US3RD	2331
22850	7590	04/17/2007		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER CHARLES, MARCUS	
			ART UNIT	PAPER NUMBER
			3682	

SHORTENED STATUTORY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE
3 MONTHS	04/17/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 04/17/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/811,848

Applicant(s)

JINNO ET AL.

Examiner

Marcus Charles

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 8-20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date See Continuation Sheet.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :08-09-2004, 06-21-2005, 12-20-2005, 01-26-2006, 06-09-2006 and 11-14-2006.

applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

5. The disclosure is objected to because of the following informalities: in page 14, line 10, reference numeral "12" should be --52-- subsequent to "wire"; in page 15, line 1, reference numeral "8" should be --58-- subsequent to "hole";
Appropriate correction is required.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP (11-282094) to Hidekazu in view of JP (05-33448). JP (11-282094) discloses a power transmission mechanism comprising a flexible power transmission element in the form of a wire (12) wound around a drive pulley (51) and a driven pulley (15), the drive pulley having a pin embedding hole (52- crevice) formed to extend from the outer circumference thereof towards the center, and a slit (53) elongated in the circumferential direction of the pulley to extend to the opposite sides of the hole and communicating with the hole; an anchor pin (55) having a path hole penetrating the pin across the diameter thereof to receive the wire inserted therein; the anchor pin receiving the flexible wire in the path hole thereof is embedded the embedded hole of the pulley so

as to hold the flexible wire in the pulley. JP (11-282094) fails to disclose the anchor pin having a tapered shape. JP (05-33448) discloses a pulley (21) having a tapered anchor pin locking a cable (18) unto the pulley. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the pin of JP (11-282094) so that it is tapered in view of JP (05-33448) in order allow the pin to enter the pinhole and be release without damaging the pin. In addition, JP (11-282094) fails to disclose the transmission comprising each of the driving and driven pulleys includes a tapered anchor pin. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify device of JP (11-282094) so that each of the pulleys includes a tapered pin. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to have both the drive and driven pulleys of JP (11-282094) to include a tapered anchor pin, since it has been held that a mere duplication of the essential working part of a device involves routine skill in the art. *St. Regis Paper Co. V. Bemis Co.*, 193 USPQ 8.

In claim 2, it JP (11-282094) discloses the anchor pin is made of an elastic (see translation paragraphs (5-15)).

In claim 3, it is apparent that the anchor pin has a diameter larger than the outer diameter of the hole because the anchor pin is forced in the pinhole.

In claim 4, JP (11-282094) discloses the slit in the pulley as claimed.

8. Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP (11-282094) in view of JP (05-33448) as applied to claim 1 above, and further in view of Auclair et al. (5,055,056). The combination of JP (11-282094) and JP (05-33448) fail to

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disclose the anchor pin has a slit extending in the axial direction. Auclair et al. discloses a wire connector comprising an anchor pin (32) having an anchor hole (not labeled) that accommodates a wire (12) and a slit section (37/37) extending in the axial direction of the pin and away from the upper and lower section of the hole. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to further modify the anchor pin of JP (11-282094) so as to include a slit extending axially in view of Auclair et al. in order to allow the wire free access in the pin hole during installation and allow the wire to be removed freely during reparation or replacement of the wire.


Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Schaffer (5,697,355), Jennings (4,241,715), Takahashi (4,294,233), JP (10-107954), JP (2003-167301) and JP (02-110444) disclose a transmission comprising a pulley having a hole that accommodates an anchor pin holding a wire.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus Charles whose telephone number is (571) 272-7101. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ridley Richard can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Marcus Charles
Primary Examiner
Art Unit 3682
April 11, 2007